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Total Pages: 03

BCA/M-22

1885

OPERATING SYSTEM-II BCA-362

Time: Three Hours] [Maximum Marks: 80

Note: Q. No. 1 is compulsory. In addition to that, attempt four more questions, selecting one question from each Unit. All questions carry equal marks.

(Compulsory Question)

- 1. (a) What is critical section? What are the requirements for critical section solution?
 - (b) Discuss Remote File Transfer. 4
- (c) How can the ownerships of files be viewed and changed in Linux? Discuss using examples. 4
 - (d) Write a note on different modes of vi editor. How do we delete text in vi editor?

Unit I

- 2. Discuss various classical problems of synchronization.

 How semaphores can be used for the solution of these problems?
- What do you understand by directory system ? Explain various directory structures in detail.

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Unit II

4. (a)	What is swap space management? Also discuss the
	following: SAMMADE 10
	(i) Swap space use
	(ii) Swap space location.
(b)	Discuss SCAN and C-SCAN disk scheduling
	algorithms using examples. 6
5. Disc	uss the following w.r.t. distributed operating
syste	michen stor dissipate dispesso store with 16
(i)	Data Migration
(ii)	Process Migration.
	per our on the W Unit III
	Discuss the purpose and general format of process
	oriented commands using examples. 8
bas (b)	Explain the following file handling commands using
	examples: autoroper Votes in I ni boutent 8
	(i) we share merefith no stone a safety (b)
	(ii) split miles is in vised able with ob
	(iii) comm
	(iv) cmp.
7. (a)	Explain the Linux commands that are used for
28370, 10	arithmetic operations.
(b)	Discuss the architecture and distributions of Linux.
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Unit IV

- 8. (a) Explain the process of starting/shutting down and logging in/out in Linux operating system.
 - (b) Discuss various job control commands in Linux using examples.
- 9. (a) What is a shell script? Explain the *two* types of shell variables.
 - (b) Write a shell script to reverse a string entered by the keyboard and remove the blank spaces between the words, if any.